



03/20/13

## Technical Report for

**Anderson, Mulholland & Associates**

**BMSMC, Building 5 Area, PR**

**SM04.00.06**

**Accutest Job Number: JB30252**

**Sampling Date: 03/01/13**

### Report to:

**Anderson, Mulholland & Associates**

**ttaylor@amaiconsult.com**

**ATTN: Terry Taylor**

**Total number of pages in report: 11**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy F. Cole'.

**Nancy Cole**  
**Laboratory Director**

**Client Service contact: Tammy McCloskey 732-329-0200**

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

Anderson, Mulholland & Associates

Job No: JB30252

BMSMC, Building 5 Area, PR  
Project No: SM04.00.06

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB30252-1	03/01/13	16:25 NMR	03/02/13	SO	Soil	AREAD-14BOT

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** Anderson, Mulholland & Associates

**Job No** JB30252

**Site:** BMSMC, Building 5 Area, PR

**Report Date** 3/19/2013 5:48:49 PM

On 03/02/2013, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3.5 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB30252 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### Volatiles by GCMS By Method SW846 8260B

**Matrix:** SO

**Batch ID:** VY5679

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB30950-2MS, JB30950-2MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Acetone are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Acetone are outside control limits. Outside control limits due to matrix interference.
- JB30950-2MSD for Dibromofluoromethane: Outside control limits due to matrix interference.
- JB30950-2MS for Dibromofluoromethane: Outside control limits due to matrix interference.

### Wet Chemistry By Method SM2540 G-97

**Matrix:** SO

**Batch ID:** GN81484

- The data for SM2540 G-97 meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

## Summary of Hits

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**Job Number:** JB30252  
**Account:** Anderson, Mulholland & Associates  
**Project:** BMSMC, Building 5 Area, PR  
**Collected:** 03/01/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JB30252-1      AREAD-14BOT

Acetone	42.9	12	2.1	ug/kg	SW846 8260B
Benzene	0.80 J	1.2	0.15	ug/kg	SW846 8260B
Ethylbenzene	12.0	1.2	0.33	ug/kg	SW846 8260B
4-Methyl-2-pentanone(MIBK)	92.8	6.2	0.93	ug/kg	SW846 8260B
Xylene (total)	46.0	1.2	0.17	ug/kg	SW846 8260B

## Sample Results

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## Report of Analysis

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## Report of Analysis

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Client Sample ID:	AREAD-14BOT	Date Sampled:	03/01/13
Lab Sample ID:	JB30252-1	Date Received:	03/02/13
Matrix:	SO - Soil	Percent Solids:	74.6
Method:	SW846 8260B SW846 5035		
Project:	BMSMC, Building 5 Area, PR		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y131939.D	1	03/13/13	RS	03/02/13 15:00	n/a	VY5679
Run #2							

Run #	Initial Weight
Run #1	5.4 g
Run #2	

## VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	42.9	12	2.1	ug/kg	J
71-43-2	Benzene	0.80	1.2	0.15	ug/kg	
100-41-4	Ethylbenzene	12.0	1.2	0.33	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	92.8	6.2	0.93	ug/kg	
108-88-3	Toluene	ND	1.2	0.13	ug/kg	
1330-20-7	Xylene (total)	46.0	1.2	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-130%
17060-07-0	1,2-Dichloroethane-D4	95%		70-122%
2037-26-5	Toluene-D8	100%		81-127%
460-00-4	4-Bromofluorobenzene	95%		66-132%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Misc. Forms

5

### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



**CHAIN OF CUSTODY**

2235 Route 130, Dayton, NJ 08810  
Tel: 732-329-0200 FAX: 732-329-3499/3480  
www.accutest.com

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<b>Client / Reporting Information</b> Company Name: <u>AMAI</u> Street Address: <u>110 Corporate Park Dr</u> City: <u>White Plains</u> State: <u>NY</u> Zip: <u>10604</u> Project Contact: <u>Terry Taylor</u> E-mail: <u>taylor@amaiconsult.com</u> Phone #: <u>914-251-0400</u> Fax #: <u></u> Sampler(s) Name(s): <u>Nesbory M. Rivera</u> Phone #: <u></u>		<b>Project Information</b> Project Name: <u>Bms - Building 5 Area D ICM</u> Street: <u></u> Billing Information (if different from Report to): Company Name: <u></u> Street Address: <u></u> City: <u></u> State: <u></u> Zip: <u></u> Project #: <u></u> Client Purchase Order #: <u></u> Project Manager: <u></u> Attention: <u></u>		FED-EX Tracking #: <u>7998 7281 3613</u> Bottle Order Control #: <u></u> Accutest Quote #: <u></u> Accutest Job #: <u>TB30252</u>	
<b>Requested Analysis (see TEST CODE sheet)</b> Matrix Codes: <u>Building 5, Special List</u> DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank		<b>LAB USE ONLY</b> H976 1423 4953			
Accutest Sample #: <u>-1</u> Field ID / Point of Collection: <u>AREA D - 14 BOT</u> MEQ/DOI Vial #: <u>0</u> Date: <u>3/1/13</u> Time: <u>1625</u> Sampled by: <u>NML SD</u> Matrix: <u>4</u> # of bottles: <u>4</u> Number of preserved bottles: HCl <u></u> NaOH <u></u> HNO3 <u></u> H2SO4 <u></u> NONE <u></u> DI Water <u></u> MEQ <u></u> ENCORE <u></u>	<b>Turnaround Time (Business days)</b> <input type="checkbox"/> Std. 15 Business Days <input checked="" type="checkbox"/> Std. 10 Business Days (by Contract only) <input type="checkbox"/> 10 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink		<b>Data Deliverable Information</b> <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input checked="" type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C" <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other <u></u> Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data		Comments / Special Instructions: <u>• 3 ENCORES D.G. 3/2/13</u>
<b>Sample Custody must be documented below each time samples change possession, including courier delivery.</b>					
Relinquished to Sampler: <u>Nesbory M. Rivera</u> Date/Time: <u>3/1/13 1715</u> Relinquished by Sampler: <u></u> Date/Time: <u></u> Relinquished by: <u></u> Date/Time: <u></u>	Received By: <u>Fed Ex</u> Date/Time: <u>3/1/13 1715</u> Received By: <u></u> Date/Time: <u></u> Received By: <u></u> Date/Time: <u></u>	Relinquished By: <u>Fed Ex</u> Date/Time: <u>3/2/13 953</u> Relinquished By: <u></u> Date/Time: <u></u> Relinquished By: <u></u> Date/Time: <u></u>	Received By: <u></u> Date/Time: <u></u> Received By: <u></u> Date/Time: <u></u>	Custody Seal #: <u>36</u> <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact Preserved where applicable: <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/> Cooler Temp.: <u>7.6 3.5°C</u>	

1A

**JB30252: Chain of Custody**

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## Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB30252      **Client:** \_\_\_\_\_      **Project:** \_\_\_\_\_  
**Date / Time Received:** 3/2/2013      **Delivery Method:** \_\_\_\_\_      **Airbill #s:** \_\_\_\_\_  
**Cooler Temps (Initial/Adjusted):** #1: (3.5/3.5); 0

**Cooler Security**

	Y	or	N		Y	or	N
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

**Cooler Temperature**

	Y	or	N
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

**Quality Control Preservation**

	Y	or	N	N/A
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Sample Integrity - Documentation**

	Y	or	N
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

**Sample Integrity - Condition**

	Y	or	N
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

**Sample Integrity - Instructions**

	Y	or	N	N/A
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

**Job Change Order: JB30252\_3\_15\_2013**

<b>Requested Date:</b>	3/15/2013	<b>Received Date:</b>	3/2/2013
<b>Account Name:</b>	Anderson, Mulholland &	<b>Due Date:</b>	3/18/2013
<b>Project</b>	BMSMC, Building 5 Area, PR	<b>Deliverable:</b>	FULT1
<b>CSR:</b>	michello	<b>TAT (Days):</b>	14

=====

**Sample #:** JB30252-All  
**Dept:**  
**Dept:**

**Change:**  
Please relog for D8015IPA & DGC+METH. OK to run out of hold time.

=====

**Above Changes Per:** Terry Taylor      **Date:** 3/15/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

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